Howard H Yang

List of Publications by Year
in descending order

60 papers	2,631 citations	331670 21 h-index	276875 41 g-index
63 all docs	63 docs citations	63 times ranked	1952 citing authors

#	Article	IF	Citations
1	Joint Optimization of Fractional Frequency Reuse and Cell Clustering for Dynamic TDD Small Cell Networks. IEEE Transactions on Wireless Communications, 2022, 21, 398-412.	9.2	8
2	Reputation-Based Federated Learning for Secure Wireless Networks. IEEE Internet of Things Journal, 2022, 9, 1212-1226.	8.7	27
3	When to Preprocess? Keeping Information Fresh for Computing-Enable Internet of Things. IEEE Internet of Things Journal, 2022, 9, 4303-4317.	8.7	3
4	Optimizing Age of Information in Random-Access Poisson Networks. IEEE Internet of Things Journal, 2022, 9, 6816-6829.	8.7	2
5	Spatiotemporal Analysis for Age of Information in Random Access Networks Under Last-Come First-Serve With Replacement Protocol. IEEE Transactions on Wireless Communications, 2022, 21, 2813-2829.	9.2	17
6	Revisiting Analog Over-the-Air Machine Learning: The Blessing and Curse of Interference. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 406-419.	10.8	11
7	Dynamic Scheduling for Heterogeneous Federated Learning in Private 5G Edge Networks. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 26-40.	10.8	16
8	Impacts of User Association and Power Control on AoI in Multi-Tier Cellular-Based IoT Networks. IEEE Wireless Communications Letters, 2022, 11, 1196-1200.	5.0	5
9	Mobility-Aware Cluster Federated Learning in Hierarchical Wireless Networks. IEEE Transactions on Wireless Communications, 2022, 21, 8441-8458.	9.2	25
10	Federated Stochastic Gradient Descent Begets Self-Induced Momentum. , 2022, , .		1
11	Throughput Analysis of UAV-assisted IAB Cellular Networks with Heterogeneous Traffic. , 2022, , .		2
12	Optimizing Information Freshness in Wireless Networks: A Stochastic Geometry Approach. IEEE Transactions on Mobile Computing, 2021, 20, 2269-2280.	5.8	55
13	Throughput Analysis of Small Cell Networks Under D-TDD and FFR. IEEE Communications Letters, 2021, 25, 665-669.	4.1	7
14	A Unified Framework for SINR Analysis in Poisson Networks With Traffic Dynamics. IEEE Transactions on Communications, 2021, 69, 326-339.	7.8	15
15	An Incentive-Aware Job Offloading Control Framework for Multi-Access Edge Computing. IEEE Transactions on Mobile Computing, 2021, 20, 63-75.	5.8	45
16	Optimal Status Update for Caching Enabled IoT Networks: A Dueling Deep R-Network Approach. IEEE Transactions on Wireless Communications, 2021, 20, 8438-8454.	9.2	22
17	Towards Cost Minimization for Wireless Caching Networks With Recommendation and Uncharted Usersâ€™ Feature Information. IEEE Transactions on Wireless Communications, 2021, 20, 6758-6771.	9.2	14
18	CQI-Based Interference Detection and Resource Allocation With QoS Provision in LTE-U Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 1421-1433.	6.3	6

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19	Effective Cache-Enabled Wireless Networks: An Artificial Intelligence- and Recommendation-Oriented Framework. IEEE Vehicular Technology Magazine, 2021, 16, 20-28.	3.4	4
20	Computing-aided Update for Information Freshness in the Internet of Things. , 2021, , .		1
21	Understanding Age of Information in Large-Scale Wireless Networks. IEEE Transactions on Wireless Communications, 2021, 20, 3196-3210.	9.2	40
22	Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. IEEE Internet of Things Journal, 2021, 8, 10146-10159.	8.7	5
23	Federated Learning in Multi-antenna Wireless Networks. , 2021, , .		3
24	On the Peak Age of Information in NOMA IoT Networks With Stochastic Arrivals. IEEE Wireless Communications Letters, 2021, 10, 2757-2761.	5.0	6
25	Analysis of AoI Violation Probability in Wireless Networks. , 2021, , .		3
26	On the Convergence Rate of Federated Learning over Unreliable Networks. , 2021, , .		1
27	Scheduling Policies for Federated Learning in Wireless Networks. IEEE Transactions on Communications, 2020, 68, 317-333.	7.8	386
28	Analysis of Packet Throughput in Spatiotemporal HetNets with Scheduling and Various Traffic Loads. IEEE Wireless Communications Letters, 2020, 9, 95-98.	5.0	12
29	Optimizing Information Freshness in Computing-Enabled IoT Networks. IEEE Internet of Things Journal, 2020, 7, 971-985.	8.7	62
30	AoI and Energy Consumption Oriented Dynamic Status Updating in Caching Enabled IoT Networks. , 2020, , .		22
31	SIR Coverage Analysis in Multi-Cell Downlink Systems With Spatially Correlated Queues. IEEE Access, 2020, 8, 99832-99845.	4.2	6
32	Multi-Armed Bandit-Based Client Scheduling for Federated Learning. IEEE Transactions on Wireless Communications, 2020, 19, 7108-7123.	9.2	155
33	Federated Learning With Differential Privacy: Algorithms and Performance Analysis. IEEE Transactions on Information Forensics and Security, 2020, 15, 3454-3469.	6.9	773
34	Federated-Learning-Enabled Intelligent Fog Radio Access Networks: Fundamental Theory, Key Techniques, and Future Trends. IEEE Wireless Communications, 2020, 27, 22-28.	9.0	82
35	Age-Based Scheduling Policy for Federated Learning in Mobile Edge Networks. , 2020, , .		104
36	Massive MIMO Networks With Spatio-Temporal Traffic: Scheduling Mechanism Optimization. IEEE Communications Letters, 2020, 24, 2339-2343.	4.1	5

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37	On Safeguarding Privacy and Security in the Framework of Federated Learning. IEEE Network, 2020, 34, 242-248.	6.9	147
38	Age of Information in Random Access Networks: A Spatiotemporal Study. , 2020, , .		15
39	Scheduling Optimization for Mixed-type Devices of IoT in Massive MIMO Systems with Spatio-Temporal Traffic. , 2020, , .		0
40	The Meta Distribution of SINR for Small Cell Networks with Temporal Traffic. , 2019, , .		5
41	Spatio-Temporal Analysis for SINR Coverage in Small Cell Networks. IEEE Transactions on Communications, 2019, 67, 5520-5531.	7.8	45
42	Enhancing Downlink Transmission in MIMO HetNet With Wireless Backhaul. IEEE Transactions on Vehicular Technology, 2019, 68, 6817-6832.	6.3	40
43	Locally Adaptive Scheduling Policy for Optimizing Information Freshness in Wireless Networks. , 2019, , .		12
44	On Peak Age of Information in Data Preprocessing enabled IoT Networks. , 2019, , .		11
45	Learning Overlapping Community-Based Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 684-697.	2.8	10
46	Massive Wireless Random Access With Successive Decoding: Delay Analysis and Optimization. IEEE Transactions on Communications, 2019, 67, 457-471.	7.8	9
47	Capacity of Energy Harvesting Binary Symmetric Channels With a $(sigma ,ho)$ -Power Constraint. IEEE Transactions on Communications, 2018, 66, 601-614.	7.8	2
48	Small Cell Range Expansion with Interference Mitigation for Downlink Massive MIMO HetNets. , 2018, , .		5
49	Analysis of Throughput in Heterogeneous Dynamic TDD Networks with Backhaul. , 2018, , .		1
50	Analysis of Packet Throughput in Small Cell Networks Under Clustered Dynamic TDD. IEEE Transactions on Wireless Communications, 2018, 17, 5729-5742.	9.2	23
51	Delay Analysis of Random Scheduling and Round Robin in Small Cell Networks. IEEE Wireless Communications Letters, 2018, 7, 978-981.	5.0	35
52	Cell-Edge-Aware Precoding for Downlink Massive MIMO Cellular Networks. IEEE Transactions on Signal Processing, 2017, 65, 3344-3358.	5.3	38
53	Heterogeneous Cellular Networks With LoS and NLoS Transmissionsâ€”The Role of Massive MIMO and Small Cells. IEEE Transactions on Wireless Communications, 2017, 16, 7996-8010.	9.2	41
54	Packet Throughput Analysis of Static and Dynamic TDD in Small Cell Networks. IEEE Wireless Communications Letters, 2017, 6, 742-745.	5.0	28

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55	Mean Packet Throughput Analysis of Downlink Cellular Networks with Spatio-Temporal Traffic. , 2017, , .		6
56	Delay-aware massive random access: Adaptive framing and successive decoding. , 2017, , .		1
57	Capacity bounds on energy harvesting binary symmetric channels with finite battery. , 2017, , .		3
58	Energy-Efficient Design of MIMO Heterogeneous Networks with Wireless Backhaul. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	63
59	MIMO HetNets with wireless backhaul: An energy-efficient design. , 2016, , .		7
60	Heterogeneous Cellular Network With Energy Harvesting-Based D2D Communication. IEEE Transactions on Wireless Communications, 2016, 15, 1406-1419.	9.2	131